

EXTENDED BANDWIDTH HomePNA SYSTEM  
COMPATIBLE WITH HomePNA 2.0

ABSTRACT OF THE DISCLOSURE

5       An extended bandwidth HomePNA system uses a transmit spectrum  
having a greater bandwidth than the bandwidth specified by a HomePNA 2.0  
communication standard. The extended bandwidth system of the invention  
provides for additional copies of a spectrum of a 2 Mbaud training signal for  
better accuracy in decoding transmitted data by a receiver. In one  
10       embodiment, the extended bandwidth is a 12 MHz band centered at 10 MHz,  
from 4 MHz to 16 MHz. This extended bandwidth allows for three copies of a 4  
Mbaud training sequence or six copies of a 2 Mbaud training sequence. The  
extended bandwidth of the invention is compatible with a HomePNA 2.0 system  
by providing a training sequence that enables a HomePNA 2.0 receiver in 2  
15       Mbaud mode to train on the transmitted signal and determine that the  
transmitted signal is not intended for the HomePNA 2.0 receiver in 2 Mbaud  
mode.